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### COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

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### RURAL PRODUCTION

#### SOUTH AUSTRALIA

YEAR ENDED 31ST MARCH 1965

This bulletin summarizes detailed information published in the Bulletins "Livestock, 31st March 1965" and "Cereals, Season 1964-65" recently issued from this Bureau, and shows in addition particulars concerning areas and yields of other crops, rural employment, use of artificial fertilizers, machinery on rural holdings, and direct oversea exports of rural produce. It also lists some South Australian records associated with rural production.

AREA AND
UTILIZATION
OF HOLDINGS

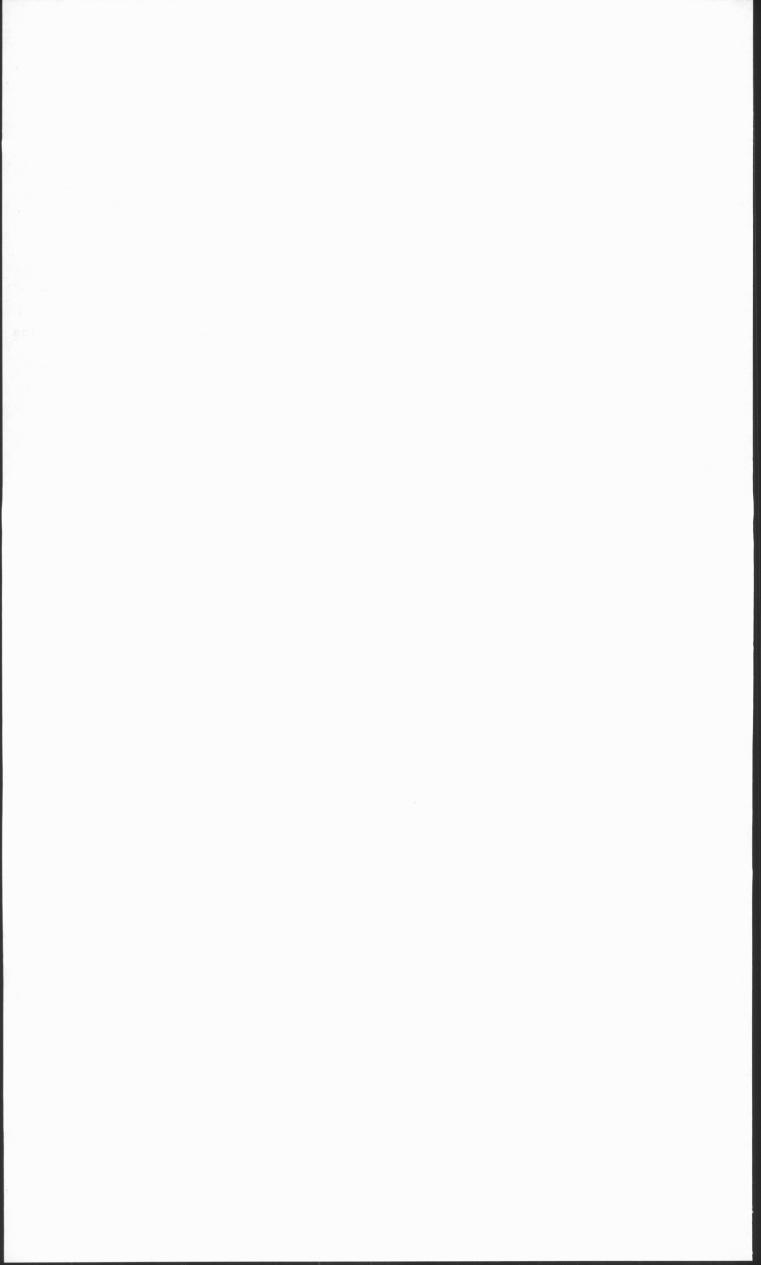
mainly in the area of 12,735,000 acres under cultivation (crops, sown pastures, and fallow) was 667,000 acres more than the previous highest of 12,068,000 acres in 1963-64. The total area of crops decreased from 5,380,000 acres in 1963-64 to 5,290,000 acres, the decrease being mainly in the areas devoted to growing grain, hay, and forage.

The area of sown pasture from 1920 to 1950 increased steadily from 20,000 to 1,066,000 acres but has since increased very rapidly. In 1964-65 the area of sown pasture was a record 6,214,000 acres.

TABLE 1 - AREA AND UTILIZATION OF RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1960-61	1961-62	1962-63	1963-64	1964-65
			'000 Acres		
Cereals for grain Field peas (grain) Hay Green forage Vineyards Orchards Vegetables (a) Other crops	4,083 26 393 313 57 38 17	3,856 29 209 273 58 38 17 29	4,093 32 288 367 58 41 17	4,457 30 358 378 59 42 16 40	4,309 34 314 462 59 43 16 53
Total crops	4,966	4,509	4,932	5,380	5,290
Sown pastures - Lucerne Clover & other Fallow land Balance of holdings	432 4,166 1,045 145,847	516 4,729 1,188 145,955	563 4,795 1,158 145,249	595 4,979 1,114 146,837	674 5,540 1,231 144,219
Total area	156,456	156,897	156,697	158,905	156,954

<sup>(</sup>a) Includes areas of potatoes grown for seed but excludes areas of other vegetables grown for animal forage or seed.



RURAL EMPLOYMENT The following table shows for each of the last three years the number of persons employed in March and the value of wages paid (including keep where applicable) during the twelve months ended 31st March.

TABLE 2 - RURAL EMPLOYMENT (a), SOUTH AUSTRALIA

Particulars	19	1963		1964		965
	Males	Females	Males	Females	Males	Females
Permanent workers - Owners, occupiers, etc. Unpaid relatives Paid employees Wages paid £'000	23,748 1,696 7,890 6,054	1,018 413 460 229	23,553 1,396 8,268 6,418	717 204 501 251	23,136 1,207 8,247 6,746	714 162 456 242
Temporary workers (b) - Paid employees Wages paid (c) £1000	Paid employees 14,106		12,496 4,533	5,339 476	10,984 4,976	5,310 579

<sup>(</sup>a) Excludes females engaged mainly in domestic duties and other workers engaged only part time.

(b) Working full time during period of engagement.

## ARTIFICIAL FERTILIZERS USED

Of the 242,000 tons of superphosphate used on crops 19,000 tons contained trace elements while 48,000 tons with trace elements were included in the 273,000 tons used on pastures. There has been very little change in recent years in the proportion of area under crop fertilized and in the quantity of fertilizer per acre applied to crops and pasture.

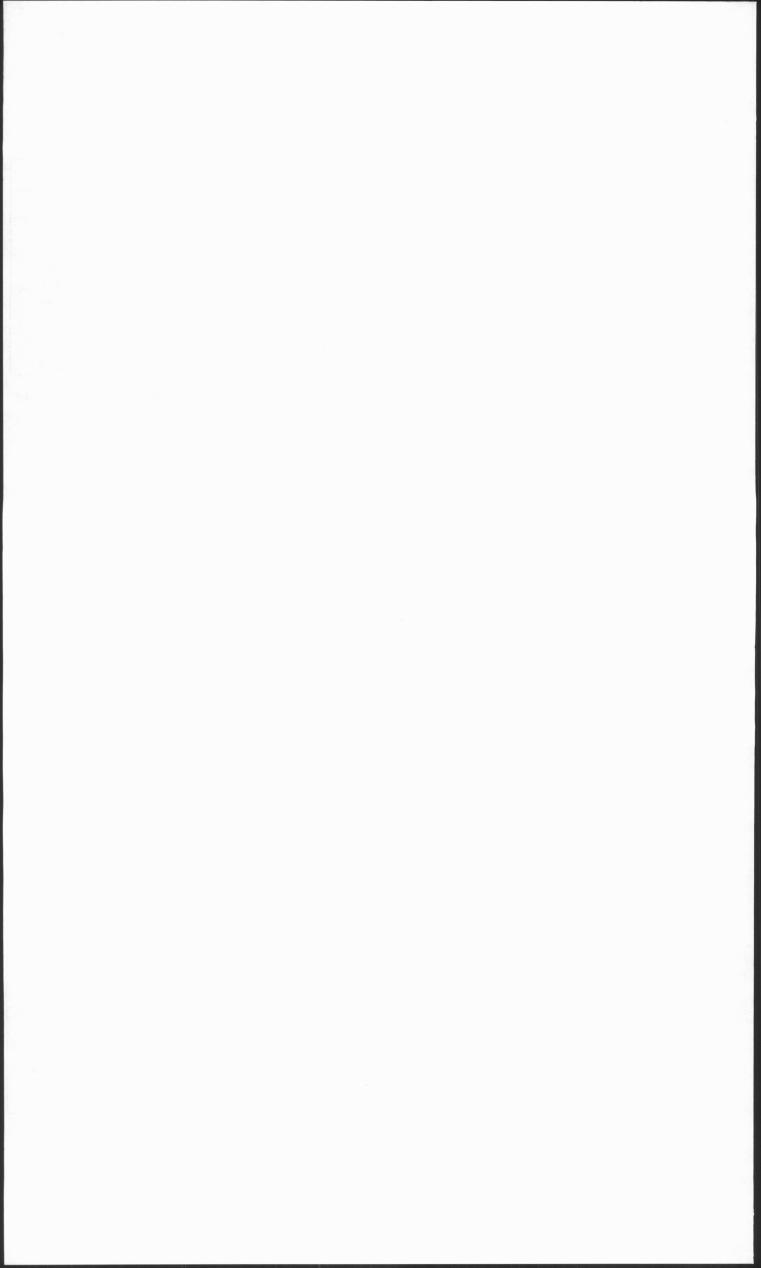
TABLE 3 - PRINCIPAL CROPS AND PASTURES FERTILIZED, SOUTH AUSTRALIA, 1964

Particulars	Area	Fertilizers	Used	Total
MANUFACTURE AND THE ADMINISTRATION OF THE AD	Fertilized	Pertilized Superphosphate		per Acre
	Acres	Tons	Tons	Lb.
Wheat (all purposes) Vegetables Fruit and vines Other crops	2,700,467 11,943 56,004 2,006,423	133,153 3,284 4,100 101,280	1,139 3,670 6,577 1,065	111.39 1304.28 427.05 114.26
Total crops	4,774,837	241,817	12,451	119.28
Pastures	4,714,489	272,954	1,604	130.45
Grand total	9,489,326	514,771	14,055	124.83

TABLE 4 - CROPS AND PASTURES FERTILIZED, SOUTH AUSTRALIA

Particulars	Unit	1961	1962	1963	1964
Crops fertilized Fertilizer used Cropped area fertilized Fertilizer per acre	1000 acres	4,063	4,415	4,788	4,775
	ton	206,047	221,011	238,905	254,268
	%	90.1	89.5	89.0	90.3
	lb.	113.6	112.1	111.8	119.28
Pastures fertilized Fertilizer used Fertilizer per acre	1000 acres	3,583	3,750	3,993	4,714
	ton	198,186	209,551	226,678	274,558
	lb.	123.9	125.2	127.2	130.45

<sup>(</sup>c) Excludes payments for construction or development work.



AREA AND YIELD OF CROPS

Tables 5, 6, 7, and 8, show details of areas and yields of the principal crops grown in South Australia during 1964-65 compared with similar details for previous years.

TABLE 5 - CEREALS AND HAY : AREA AND YIELD, SOUTH AUSTRALIA

Particulars	Unit	1960-61	1961-62	1962-63	1963-64	1964-65
Wheat -						
Area for grain	1000 acres	1,969	2,229	2,595	2,802	2,727
Yield	'000 bush.	46,396	33,854	38,339	53,971	52,817
Yield per acre	bush.	23.56	15.19	14.77	19.26	19.37
Barley -						
Area for grain	'000 acres	1,556	1,271	1,053	1,123	1,095
Yield yield non some	'000 bush.	42,233	21,292	18,005	24,337	26,932
Yield per acre	bush.	27.15	16.75	17.10	21.67	24.60
Area for grain	'000 acres	512	324	416	501	444
Yield	'000 bush.	11,478	4,391	5,770	9,149	8,977
Yield per acre	bush.	22.41	13.57	13.88	18.27	20.23
Rye -						
Area for grain	'000 acres	46	32	29	31	44
Yield	'000 bush.	264	167	144	153	262
Yield per acre	bush.	5.73	5.18	4.92	4.88	5.96
Field Peas -						
Area for grain	'000 acres	26	29	32	30	34
Yield	'000 bush.	358	256	392	490	496
Yield per acre	bush.	13.71	8,93	12.10	16.25	14.67
Hay (all kinds) -	1000	202	200	007	350	244
Area Yield	'000 acres	393	209	287	358	314
Yield per acre	tons	616 1.57	286 1.37	406 1.41	488 1.37	487 1.55
TTOTA DET MOTE	0.0119	10)1	1001	1.41	1.57	1.00

TABLE 6 - VEGETABLES (a): AREA AND PRODUCTION, SOUTH AUSTRALIA

77 7-7 -	Acı	es	Yields			
Vegetable	1963-64	1964-65	Unit	1963-64	1964-65	
Beans - French Beetroot Cabbage Carrots Cauliflowers Celery Green peas Lettuce Melons Onions Parsnips Potatoes (b) Pumpkins, etc. Tomatoes Turnips All other	255 94 366 315 484 289 4,851 425 347 930 65 5,459 871 1,180 205 377	220 90 330 318 498 289 4,333 422 257 1,146 53 5,247 828 956 197 413	bush. ton doz. ton doz. crate bush. case ton ton ton ton ton ton	57,723 806 171,855 4,064 174,741 181,600 345,292 227,397 1,782 8,736 676 51,195 5,477 691,525 1,976	50,061 723 155,473 4,464 197,246 197,658 301,643 225,062 1,310 11,061 579 48,400 5,081 689,038 1,396	
Total	16,513	15,597	<b>.</b>	• •	<b>4</b> 0	

<sup>(</sup>a) Grown for human consumption. Excludes vegetables grown for animal forage or seed (see also footnote (b)).

<sup>(</sup>b) Includes potatoes grown for seed.

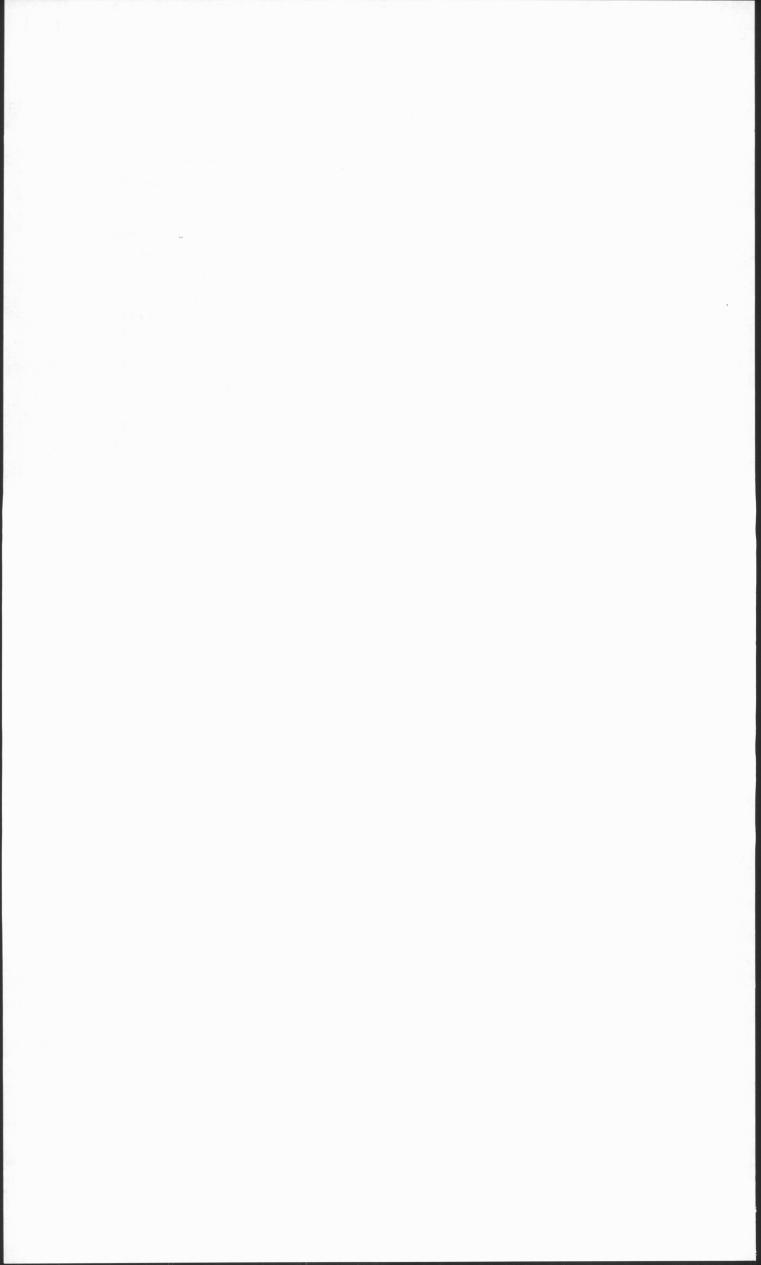


TABLE 7 - VINEYARDS : AREA AND PRODUCTION, SOUTH AUSTRALIA

	Acres 1	Bearing	Yield		
Particulars	1963-64	1964-65	Unit	1963-64	1964-65
Vines - Wine grapes Table grapes Drying grapes Total	40,678 232 12,213 53,123	40,155 207 13,024 53,386	ton ton ton	148,828 969 61,922	155,789 (b) 1,167 72,688 (b) 229,644 (b)
Produce - Wine (a) Dried fruit - Currants Sultanas Raisins	0 0 0 0 0 0	• • • • • • • • • • • • • • • • • • •	'000 gal. cwt cwt cwt	27,102 90,660 244,820 18,360	28,112 (b) 98,740 (b) 264,500 (b) 52,120 (b)

<sup>(</sup>a) Excludes fortifying spirits added. (b) Preliminary.

The total area of orchards has been increasing steadily in recent years, and records have been established in each year from 1956-57 (33,998 acres) to 1964-65 (43,012 acres). In 1964-65 record yields of almonds, apricots, oranges, peaches and pears were obtained.

TABLE 8 - ORCHARDS : BEARING TREES AND YIELD, SOUTH AUSTRALIA

	No. of Bear	ring Trees		Yield	
Variety	1963-64	1964-65	Unit	1963-64	1964-65
Almonds Apples Apricots Cherries	293,605 543,726 361,062 48,728	291,933 550,035 366,481 48,559	cwt bush. bush. bush.	16,541 1,340,863 929,172 54,454	18,208 1,624,706 1,169,864 41,645
Citrus - Lemons, limes Navel oranges Valencia oranges Other citrus Figs	19,155 332,198 355,786 58,200 10,343	19,413 347,924 387,016 59,179 9,854	bush. bush. bush. bush. bush.	36,329 1,032,022 1,018,290 233,526 14,793	41,641 1,427,512 1,725,958 242,217 15,269
Nectarines Olives Peaches Pears Plums, prunes	14,474 37,863 366,645 171,729 95,086	14,436 36,932 385,239 174,471 91,665	bush.  cwt  bush.  bush.  bush.	21,862 (a) 12,716 979,192 523,690 90,792	30,773 (b) 1,173,048 574,225 109,607

<sup>(</sup>a) Includes olives grown in parklands and reserves. (b) Not yet available.

The production of honey and beeswax fluctuates considerably from year to year, depending upon seasonal conditions. The average yield of honey per productive hive decreased from 154 lb. in 1963-64 to 111.1 lb. in 1964-65.

TABLE 9 - BEEKEEPING: HIVES AND PRODUCTION (a), SOUTH AUSTRALIA

Particulars	1960-61	1961-62	1962-63	1963-64	1964–65
Beekeepers Productive hives Unproductive hives Honey lb. Beeswax lb.	838	906	842	857	781
	47,298	61,545	51,010	63,142	58,728
	18,658	10,162	18,590	8,535	13,900
	4,442,217	8,404,895	4,147,215	9,721,492	6,526,587
	59,227	123,298	56,199	134,008	89,810

<sup>(</sup>a) Excludes particulars for producers having less than 5 hives.

LIVESTOCK The following table shows details of numbers of and production from livestock. To 1963 cattle were classified under the headings Dairy cattle and Beef cattle but in 1964 they were classified as "Used for the production of milk" or "Used mainly for meat production". Because of the different method of classification used from 1964, the figures (except for total cattle) should not be compared directly with those in previous years.

TABLE 10 - LIVESTOCK : NUMBERS AND PRODUCTION, SOUTH AUSTRALIA

TABLE 10 - BIVEDIOGN . NOMBERO AND INCOMOTION, GOOTH ROBINALIA							
Particulars	1960-61	1961-62	1962-63	1963-64	1964-65		
Stock at end of March-			1000				
Sheep Cattle -	14,952	16,415	15,737	16,402	17,289		
Dairy cows (a) Other dairy Beef Cows for milk production (b) Other cattle for milk production Cattle for meat production Horses Pigs Poultry	170 77 313 (c) (c) (c) 27 144 1,966	183 92 385 (c) (c) (c) 26 170 2,132	190 91 398 (c) (c) (c) (c) 25 145 2,029	(c) (c) (c) 192 78 424 (c) 153 2,159	(c) (c) (c) 189 73 435 (c) 196 2,199		
Lambing (d) -							
Ewes mated Lambs marked	5,797 4,192	7,076 5,644	6,934 5,443	6,850 5,402	7,191 5,739		
Slaughterings (e) -							
Sheep Lambs Cattle and calves Pigs	1,573 1,211 174 183	1,645 1,495 201 232	1,748 1,718 254 235	1,568 1,428 279 213	1,581 1,519 275 241		
Production -			1000 Lb	•			
Wool clip Wool production (e)(f) Butter (e) Cheese (e) Bacon and ham (e)	162,876 177,413 15,610 28,345 7,035	192,205 206,984 16,861 32,835 7,475	189,854 207,344 16,608 33,967 7,514	210,500 16,791 34,236 8,076	200,059 (g)215,729 17,392 38,836 (g) 8,402		
			'000 Gall	ons			
Milk (e)	87,030	95,504	95,378	97,523	(g)103,676		

<sup>(</sup>a) Includes cows, "in milk" and "dry" and "springing" heifers. (b) Includes springing heifers and house cows. (c) Not collected.
(d) Calendar year first stated. (e) Year ended 30th June.

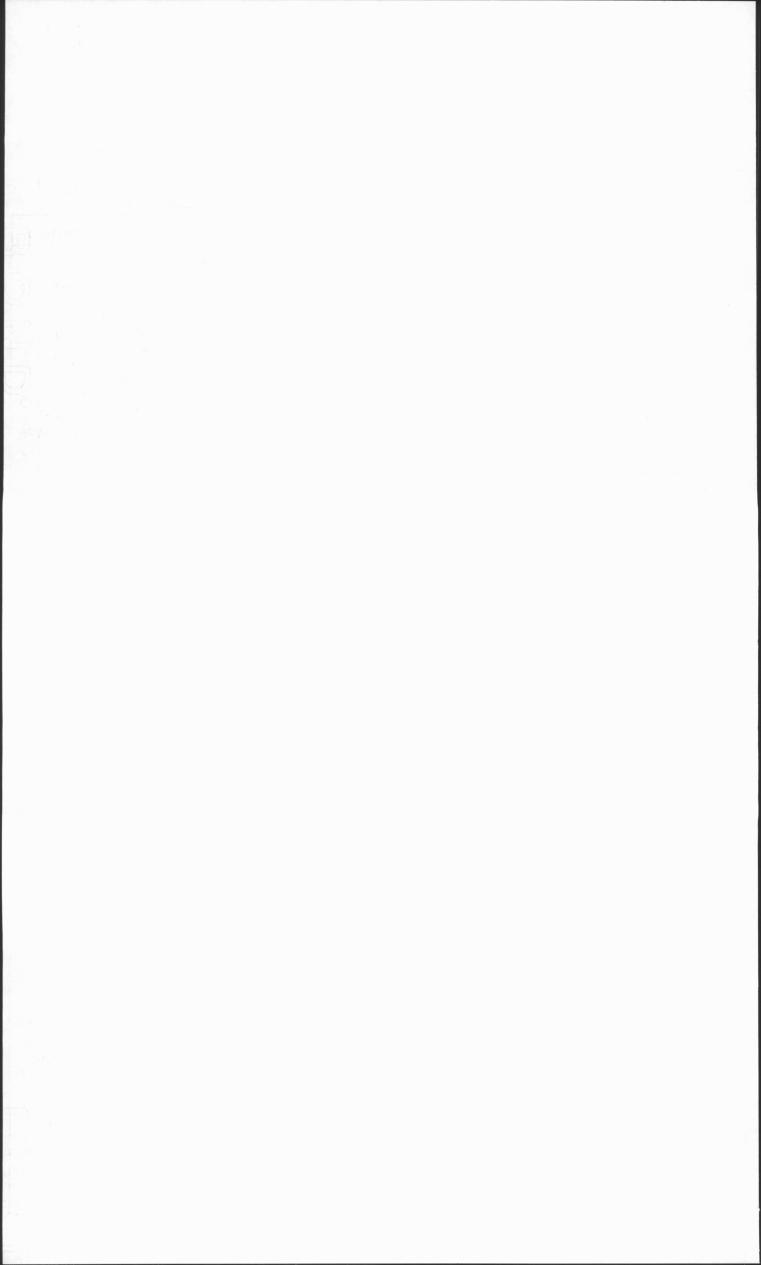
(f) Includes wool exported on skins and dead and fellmongered wool. (g) Preliminary.

TABLE 11 - MACHINERY ON RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1961	1962	1963	1964	1965
			Number		
Tractors - Wheeled Crawler Rotary hoes Fertilizer distributors Drills and combines Harvesters etc. Hay presses Hay balers Milking machines - No. Units	27,269 3,405 4,620 8,000 19,760 12,799 719 3,422 7,589 18,235	28,289 3,499 4,873 8,271 20,086 12,831 655 3,534 7,707 18,831	28,497 3,174 4,989 8,213 20,316 12,677 (b) 3,791 7,553 18,836	29,841 3,390 5,260 8,413 20,358 (a)12,652 (b) 4,149 7,438 19,057	30,772 3,392 5,670 8,743 20,785 12,659 (b) (a) 4,271 7,328 19,135
Shearing machines - No. Stands	14,317 26,568	14,532 27,278	14,595 27,528	14,885 28,149	15,172 28,844

<sup>(</sup>a) Subject to revision. (b) Not collected.

Numbers of principal machines on rural holdings at 31st March in each MACHINERY of the last five years are shown in the following table:-



PRODUCTION RECORDS

New records were established in 1964-65 for the production of almonds, apricots, peaches, pears, oranges, grapes, milk, cheese, wool, the number of cattle, pigs, sheep, and lambs marked, and for the area under sown pasture.

TABLE 12 - RURAL INDUSTRY : RECORD PRODUCTION, NUMBERS, ETC., SOUTH AUSTRALIA

Item	Unit	Quantity	Year	Item	Unit	Quantity	Year
Barley Oats Yield/acre - Wheat (a) Barley (a) Oats (a)  Vineyards - Grapes (b)(c)	000 bush. 000 bush. bush. bush. bush.	42,233 11,992 23.56 28.27 24.93	1958-59 1964-65	Cattle Horses Pigs  Production - Wool - Clip Production Lambs marked	'000 '000 '000 '000 '000 lb.	17,289 697 284 196 200,059 (c)215,729 5,739	1965 1913 1965 1964–65 1964–65 1964
Currants Raisins Sultanas Wine	cwt cwt cwt '000 gal.	117,505	1943-44 1953-54 1943-44 1961-62	Butter Cheese	'000 gal. '000 lb. '000 lb. '000 lb.	38,836 11,735	1964–65 1939–40 1964–65 1945–46 1948–49
Orchards - Almonds Apples Apricots Oranges Peaches Pears	cwt '000 bush. '000 bush. '000 bush. '000 bush.	1,750 1,170 3,250 1,173	1964-65 1940-41 1964-65 1964-65 1964-65	Area under - Crop Fallow Sown pastures	'000 acres '000 acres '000 acres	5,426 2,607	1930-31 1932-33 1964-65

<sup>(</sup>a) Slightly greater yields per acre were recorded from small acreages over 100 years ago.

(c) Preliminary.

DIRECT OVERSEA EXPORTS The following table shows the quantities of principal rural products exported overseas from South Australian ports during the last five years; OVERSEA EXPORTS VIA OTHER STATES ARE EXCLUDED.

TABLE 13 - RURAL PRODUCTS: PRINCIPAL OVERSEA EXPORTS, SOUTH AUSTRALIA

Commodity	Unit	1960-61	1961-62	1962-63	1963-64	1964-65(a)
Butter	'000 lb.	607	465	182	898	453
Cheese	'000 lb.	11,164	15,706	11,876	21,194	18,612
Eggs - In shell	1000 doz.	79	421	_	87_	
Not in shell	'000 lb.	546	864	62	54	_
Fruit, Dried - Currants	'000 lb.	6,346	5,225	3,025	4,092	6,548
Raisins	'000 lb.	12,959	14,510	16,050	23,403	21,336
Other	1000 lb.	4,147	3,427	4,106	5,024	4,186
Fresh - Apples	1000 bush.	245	324	363	426	466
Preserved, pulped	1000 lb.	14,503	21,130	14,884	28,613	29,852
Flour (including semolina)	ton	72,424	82,777	89,971	90,216	92,762
Grain - Wheat	1000 bush.	23,911	30,149	18,509	48,658	33,782
Barley	'000 bush.	22,427	24,768	6,875	13,450	12,894
Oats	'000 bush.	406	1,148	298	704	1,078
Honey	'000 lb.	3,140	3,069	2,067	1,791	947
Meat (lamb)	'000 lb.	10,079	5,465	15,336	8,828	10,570
Sheep skins	1000	2,977	3,161	3,377	3,220	3,366
Wine	1000 gal.	1,813	1,568	1,516	1,437	1,882
Wool - Greasy	'000 lb.	133,261	158,008	151,999	163,298	164,358
Other	'000 lb.	10,316	14,326	15,526	.14,624	11,652

<sup>(</sup>a) Preliminary.

D.L.J. AITCHISON

<sup>(</sup>b) Includes fresh grapes used for drying.

